

Amendments to the Claims

Claims 1-12 (Cancelled).

13. (New) A camera rotation device, comprising:

a main base;

a first rotatable member mounted to said main base and operable to rotate about a first axis with respect to said main base;

a first rotation drive mechanism mounted to said first rotatable member and operable to rotate said first rotatable member about the first axis, said first rotation drive mechanism including a first motor having an axis of rotation parallel to the first axis;

a second rotatable member mounted to said first rotatable member and operable to rotate about a second axis with respect to said first rotatable member; and

a second rotation drive mechanism mounted to said second rotatable member and operable to rotate said second rotatable member about the second axis, said second rotation drive mechanism including a second motor having an axis of rotation parallel to the second axis.

14. (New) The camera rotation device of claim 13, further comprising a camera mounted to said second rotatable member, wherein said first rotatable member, said second rotatable member, and said camera are arranged so that an optical axis of said camera intersects an intersection of the first axis and the second axis.

15. (New) The camera rotation device of claim 14, wherein the first axis is orthogonal to the second axis.

16. (New) The camera rotation device of claim 13, wherein the first axis is orthogonal to the second axis.

17. (New) The camera rotation device of claim 13, wherein said first rotation drive mechanism further includes a first gear mechanism having a first end directly engaging said first motor and having a second end directly engaging said main base, wherein said second rotation drive mechanism further includes a second gear mechanism having a first end directly engaging said second motor and having a second end directly engaging said first rotatable member, and wherein at least one of said first gear mechanism and said second gear mechanism includes only spur gears.

18. (New) The camera rotation device of claim 17, wherein both said first gear mechanism and said second gear mechanism include only spur gears, each of said spur gears of said first gear mechanism having an axis of rotation parallel to the first axis, each of said spur gears of said second gear mechanism having an axis of rotation parallel to the second axis.

19. (New) The camera rotation device of claim 13, wherein said first rotation drive mechanism further includes a first gear mechanism having a first end spur gear fixed to said main base and having at least one intermediate spur gear between said first motor and said first end spur gear, and wherein said second rotation drive mechanism further includes a second gear mechanism having a second end spur gear fixed to said first rotatable member and having at least one intermediate spur gear between said second motor and said second end spur gear.

20. (New) The camera rotation device of claim 19, wherein at least one spur gear of said first gear mechanism and at least one spur gear of said second gear mechanism are interchangeable.

21. (New) The camera rotation device of claim 13, further comprising a camera retainer mounted to said second rotatable member, and a camera supported by said camera retainer.

22. (New) A camera rotation device, comprising:

a main base;

a first rotatable member mounted to said main base and operable to rotate about a first axis with respect to said main base;

a first rotation drive mechanism mounted to said first rotatable member and operable to rotate said first rotatable member about the first axis, said first rotation drive mechanism including a first motor and including a first gear mechanism having a first end directly engaging said first motor and having a second end directly engaging said main base;

a second rotatable member mounted to said first rotatable member and operable to rotate about a second axis with respect to said first rotatable member; and

a second rotation drive mechanism mounted to said second rotatable member and operable to rotate said second rotatable member about the second axis, said second rotation drive mechanism including a second motor and including a second gear mechanism having a first end directly engaging said second motor and having a second end directly engaging said first rotatable member;

wherein at least one of said first gear mechanism and said second gear mechanism includes only spur gears.

23. (New) The camera rotation device of claim 22, further comprising a camera mounted to said second rotatable member, wherein said first rotatable member, said second rotatable member, and said camera are arranged so that an optical axis of said camera intersects an intersection of the first axis and the second axis.

24. (New) The camera rotation device of claim 23, wherein the first axis is orthogonal to the second axis.

25. (New) The camera rotation device of claim 22, wherein the first axis is orthogonal to the second axis.

26. (New) The camera rotation device of claim 22, wherein said first rotation drive mechanism further includes a first rotation unit including a pair of spaced-apart plates attached to said first rotatable member, said first gear mechanism includes only spur gears arranged between said plates of said first rotation unit.

27. (New) The camera rotation device of claim 26, wherein said first motor is attached to at least one of said plates of said first rotation unit.

28. (New) The camera rotation device of claim 22, wherein said second rotation drive mechanism further includes a second rotation unit including a pair of spaced-apart plates attached to said second rotatable member, said second gear mechanism includes only spur gears arranged between said plates of said second rotation unit.

29. (New) The camera rotation device of claim 28, wherein said second motor is attached to at least one of said plates of said second rotation unit.

30. (New) The camera rotation device of claim 22, wherein both said first gear mechanism and said second gear mechanism include only spur gears, each of said spur gears of said first gear mechanism having an axis of rotation parallel to the first axis, each of said spur gears of said second gear mechanism having an axis of rotation parallel to the second axis.

31. (New) The camera rotation device of claim 22, wherein said first gear mechanism has a first end spur gear fixed to said main base and has at least one intermediate spur gear between said first motor and said first end spur gear, and wherein said second gear mechanism has a second end spur gear fixed to said first rotatable member and has at least one intermediate spur gear between said second motor and said second end spur gear.

32. (New) The camera rotation device of claim 31, wherein at least one spur gear of said first gear mechanism and at least one spur gear of said second gear mechanism are interchangeable.

33. (New) The camera rotation device of claim 22, further comprising a camera retainer mounted to said second rotatable member, and a camera supported by said camera retainer.